INDEX.

Abu Durba Crude Oil, 233
Alcohol Fuel, 252-253
Alcohol-Benzene, Equilibrium Boiling-point and Latent Heat of, 373
American Petroleum, Carboxyl Derivatives in, 438-439
D'ANDRIMONT, R., Note on the Genesis of Hydrocarbons and their Localization in certain Zones of the Earth's Crust, 287-291
ANFILOGOFF, N. A., on Egyptian Crude, 246-247
——— on Oil Pumping, 91-93
Annual Dinner, Fifth, 165-184
Annual General Meeting, Tenth, 107-110
Annual Report of Council, 1922, 101-106
Anti-knock, 254-255
Apsheron Peninsula, Russia, Geology of, 9-13
Asphalt in Lubricating Oils, 384-388
Asphaltic Hydrocarbons in Petroleum, 427-439
Atashka, Russia, Undeveloped Oil Land in, 193-196
Auger, Hand, Use of, in Geological Mapping, 478-482
AULD, Lt.-Col. S. J. M., Psycho-Galvanic Measurement of Smell, 389-391
Aviation Spirit, 249-259
AUSTIN, H. G., on Use of Hand Auger, 481

Baku District, Russia, Geology of, 9-13
——— Undeveloped Oil Land in, 185-207
Baladjari, Russia, Undeveloped Oil Land in, 199-200
Balakhani, Russia, Undeveloped Oil Land in, 188-189
BARRINGER, H., on Carpathian Region, 304, 305
——— on Oil Pumping, 90-91
——— on Oilfield Waste, 322-323
——— on Origin of Petroleum, 353
——— on Pole Tool Fishing, 417, 421, 425
——— on Potrero No. 4, 156-157
Bell-nipple, Use of on Potrero No. 4, 143-145
Benzene, Engler Distillation of, 379
——— Equilibrium Boiling-point and Latent Heat of, 372
Benzine from Egyptian Crude, 216
Benzole, Equilibrium Boiling-point and Latent Heat of, 374
Bibi-Eibat, Russia, Undeveloped Oil Land in, 186-187
Bibliography, Pumps, 88-89
Binagadi, Russia, Undeveloped Oil Land in, 189-190
Bitumen from Egyptian Crude, 221-229
BLACK, Sir F. W., on Egyptian Crude, 239-240
——— on Potrero No. 4, 159-160
Boiling-point, Equilibrium, of Motor Fuels, 368-379
BOWMAN, T. SUTTON, on Origin of Petroleum, 469-470
BRAME, Prof. J. S. S., Fire Hazards and Fire Extinction, 113-128
——— Presidential Address, 111-113
——— on Egyptian Crude, 240-241
——— on Flash-point Temperatures, 60-61
BROWNLEE, R. H., and W. H. COBURN, A Study of Viscosities of Fuel Oil made from Panuco Crude, 440-451

Carboxyl Derivatives in American Petroleum, 438-439
Carpathians, Petroleum Deposits of, Mode of Appearance of, 291-300
——— the riddle of the, 274-276
CARTER, ASHLEY, on Carpathian Region 303
——— on Oilfield Waste, 323-324, 329
——— on Pole Tool Fishing, 419
Casing, Collapsing Pressure of, 75-76
——— Loosening of Frozen, 407-408
——— Recovery of Lost, 407
Caucasus, Russia, Geology of, 5-19
CHALONER, J. L., on Oil Pumping, 95-96
CHAMBERS, A. E., Potrero No. 4, A History of One of Mexico's Earliest and Largest Wells, 141-164
CHAMBRIER, PAUL DE, An Economic Study of Petroleum Mining by Underground Drainage, 330-342
Chemical Study of Egyptian Crude Oil, 212-213
COBURN, W. H. See R. H. BROWNLEE
Coke-oven Gases, Alcohol Fuel from, 252-253
COOPER-KEY, Major, on Flash-point Temperatures, 64
Core Drill, Diamond, 474-475

"Cracking" of Residue from Egyptian Crude, 229-230
CRANSTON, W. M., on Carpathian Region, 307-308
CRAVEN, E. C. See ORMANDY, W. R.
CUNNINGHAM-CRAIG, E. H., The Riddle of the Carpathians, 274-276
——— Recent Researches Bearing Upon the Origin of Petroleum, 344-367, 471
——— on Carpathian Region, 301-302, 303-304, 310-311
——— on Underground Drainage, 342
Cyclo-hexane, 252

DABELL, A. FRANK, on Oil in Russia, 27-28
——— on Potrero No. 4, 157-158
——— on Oil Pumping, 100
DABELL, CHARLES, on Potrero No. 4, 160
Dekalin, Supplementary Motor Fuel, 251
Detonation, 254-255
DEWHURST, T., on Carpathian Region, 302-303
——— on Egyptian Crude, 242-244
——— on Origin of Petroleum, 353-358
Diamond Coil Drill, 474-475
"Discol," Engler Distillations of, 379
——— Equilibrium Boiling-point and Latent Heat of, 375
Drilling Machine, Portable, 472-474
DUNSTAN, Dr. A. E., on Egyptian Crude, 234-236
——— on Origin of Petroleum, 358-359
DUNSTAN, Dr. A. E. and Dr. F. B. THOLE, Aviation Spirit—Past, Present, and Future, 249-259
Duplex Power-driven Pumps, 83-84
——— Steam Pumps, 82-83
DVORKOWITZ, Dr. P., on Oil in Russia, 28-30

Egyptian Crude Oil, Characteristics of, 214
——— Commercial Products, 215-229
——— Heavy Grade, 212-247
——— Paraffin Wax Extraction, 230-232
Electricity, Frictional, as Cause of Gasoline Fires, 115
Emba District, Russia, Geology of, 24
Equilibrium, Boiling-point of Motor Fuels, 368-379
Ethyl Alcohol, Engler Distillation of, 379
——— Equilibrium Boiling-point and Latent Heat of, 373
EVANS, ELLIOTT A., Asphalt in Lubricating Oils, 384-388
——— Some Physical Properties of Lubricants, 380-384
——— on Flash-point Temperatures, 64
——— on Oil in Russia, 30
——— on Oil Pumping, 95
——— on Potrero No. 4, 160

Fire Hazards and Extinction, 113-128
Fishing Methods, Galician-Canadian Pole Tool, 397-426
Flash-point, Determination under Increased Pressure, 39-45
——— Effect of temperature on Vapour-air mixtures, 53-60
——— Flames, Appearance of, 46-47
——— Temperatures, Physico-Chemical Significance of, 33-68
Flash-points of Mixed Gases, 46
FLETCHER, R. M., on Oilfield Waste, 325-326
Foam Preparations for Fire Extinction, 122
Formolite Reaction, 439
Frictional Electricity as Cause of Gasoline Fires, 115
Fuel Oil from Panuco Crude, Viscosities of, 440-451
Fuel Resources and Supplies for Road Transport, 452-468

Galician-Canadian Pole Tool Fishing Methods, 397-426
Gases, Mixed, Flash-points of, 46
Gasoline, Fires Caused by, 115
Genesis of Petroleum, 344
Geological Mapping, Use of Hand Auger in, 478-482
Geology of Egyptian Oil, 213
Georgia, Russia, Geology of, 19-20
GIBSON, G. W. E., Some Practical Notes on Oil Pumping, 77-100
GOLUBIATNIKOFF, D. V., The Amount of Undeveloped Oil Land in the Baku District, 185-207
GREY, R. B., on Oil Pumping, 99-100
GUTHRIE, W. A., Heavy Grade Egyptian Crude Petroleum, 212-247

HANKS, A. G. G., an Use of Hand Auger, 482
HARLEY, J. P., on Carpathian Region, 305-306
HAYWARD, J. T., on Fire Hazards, 248-249

HENDERSON, Dr. J. A. L., on Potrero No. 4, 161
HENSON, F. R. S., Use of the Hand Auger in Geological Mapping, 478-482
Heptane, Engler Distillation of, 379
—— Equilibrium Boiling-point and Latent Heat of, 373
HINCHLEY, Prof. J. W., on Oil Pumping, 93-94
Holy Island, Russia, Undeveloped Oil Land in, 190-193
Hydrocarbons, Asphaltic and Lubricant, in Petroleum, 427-439
—— Genesis of, 287-291
Hydrogenation of Coal, 346

Inorganic Origin of Petroleum, 344
Institution's Aldine House Offices, 211
International Liquid Fuel Congress, 1922, 69-74
——— Petroleum Exposition and Congress, 1923. 472-477
Iodine Numbers, Unsaturation shown by, 439

Jemsa Crude Oil, 233

Kala, Russia, Undeveloped Oil Land in, 200-201
Kerosene, from Egyptian Crude, 216
KEWLEY, J., on Egyptian Crude, 241-242
Khurdalan, Russia, Undeveloped Oil Land in, 196-199
KRAUS, Dr. M., Oil Deposits and Tectonics of Vertical Pressure, 276-287
Kuban District, Russia, Geology of, 16-19

Latent Heat of Motor Fuels, 368-379
LAUTIER, J. A., An Economic Study of Petroleum Mining by Underground Drainage, 330-342
Lightning, Fires Caused by, 114
Liquid Fuel Congress, 1922, 69-74
LOMAX, E. LAWSON, on Egyptian Crude, 238
——— on Potrero No. 4, 161
Lubricant Hydrocarbons in Petroleum, 427-439
Lubricants, Physical Properties of, 380-384
Lubricating Oils, Asphalt in, 384-388
Lubrication in Engineering Practice, 260-273

MABERY, CHARLES F., Lubricant and Asphalt Hydrocarbons in Petroleum, 427-439
MACDOUGALL, A., on Potrero No. 4, 160
MADGWICK, T. G., Some Aspects of the Occurrence of Oil in Russia, 2-32
——— on Origin of Petroleum, 362-363
MARSHALL, R., on Oil Pumping, 96-97
MAY, HUBERT, on Oilfield Waste, 327-329
Methyl Alcohol, Engler distillation of, 379
——— Equilibrium Boiling-point and Latent Heat of, 373
Mexico, History of Potrero No. 4 Well, 141-164
Midgley & Boyd's Work on Motor Fuels, 257-259
MILLAR, ALBERT, Galician-Canadian Pole Tool Fishing Methods, 397-426
MISKIN, A. B., on Use of Hand Auger, 481
Mixing Agents, Method for Expressing Value of, 129-132
Molecular Weights of Motor Fuels, 375
MOON, F. W., on Origin of Petroleum, 424
MOON, H. F., on Pole Tool Fishing, 470-471
Motor Fuels, Equilibrium Boiling-point and Latent Heat of Vaporisation of, 368-379
——— Free Sulphur in, 133-139
——— Molecular Weights of, 375

NASH, A. W., on Origin of Petroleum, 350-353
——— on Pole Tool Fishing, 421-422
NUTSFORD, A., on Use of Hand Auger, 481

OCKENDEN, M. A., on Oilfield Waste, 326
Oil Conference at Sixth International Mining Exhibition, 274-342
Oil Deposits and Tectonics of Vertical Pressure, 276-287
Oil Pumps, Historical Notes, 80-82
——— Special Types of, 85-86
Oilfield Waste, 311-329
Oklahoma, International Petroleum Exposition, 472-477
Organic Origin of Petroleum, 344
Origin of Petroleum, Researches on, 344-367
ORMANDY, Dr. W. R., on Oil Pumping, 94-95
——— on Origin of Petroleum, 361-362

ORMANDY, W. R., and E. C. CRAVEN, A Method for Expressing the Value of Mixing Agents between Hydrocarbons and 95 per cent. vol. Alcohol, 129-132
——— Equilibrium Boiling-point and Latent Heat of Vaporisation of Motor Fuels, 368-379
——— Free Sulphur in Motor Fuels, etc., 133-139
——— Further Investigations into the Physico-Chemical Significance of Flash-point Temperatures, 33-68

Panuco Crude, Distillation of, 441
——— Viscosities of Fuel Oil made from, 440-451
Paraffin Wax, Extraction from Egyptian Crude, 230-232
Pechelbronn, Underground Drainage, 330-342
PENNEY, F. M., on Oil in Russia, 26-27
Petrol, Equilibrium Boiling-point and Latent Heat of, 371, 374
Petrols, Engler distillations of, 379
Pitch from Egyptian Crude, 221-229
PITT, GORDON, on Egyptian Crude, 240
——— on Flash-point Temperatures, 65-66
——— on Pole Tool Fishing, 419-420
——— on Potrero No. 4, 158-159
PLUMMER, F. B., International Petroleum Exposition, 1923, 472-477
Plunger Pumps, Power-driven, 84
Pole Tool Fishing Methods, 397-426
Portable Drilling Machine, 472-474
Potrero No. 4 Well, History of, 141-164
Power-driven Pumps, Duplex, 83-84
Psycho-galvanic Measurement of Smell, 389-391
Pumping Installations, Data for Planning of, 86-87
Pumping Oil, Notes on, 77-100

RAPPOPORT, F. G., on Pole Tool Fishing, 420
REDGROVE, E. R., on Origin of Petroleum, 364
Residue from Egyptian Crude, 216-220
Reviews:
"The Business of Oil Production," Johnson, Huntley and Somers, 140
"Chart of the Mexican Oilfields, 1923," Cull & Co., 140
"The Examination of Hydrocarbon Oils, and of Saponifiable Fats and Waxes," Prof. D. Holme, 208-209
"The Examination of Petroleum," Hamor and Padgett, 394
Reviews—*continued*:
"The Genesis of Petroleum," P E. Spielmann, 395
"Motor Fuels, their Production and and Technology," Dr. E. H. Leslie, 209
"Oil Flow Viscosity and Heat Transfer," R. S. Danforth, 394
"Petroleum Resources of the World," Valentin R. Garfias, 393
"The Recovery of Volatile Solvents," C. S. Robinson, 208
"Redwood and Eastlake's Petroleum Technologists' Pocket Book," 2nd Edn., Arthur W. Eastlake, 392-393
Ricardo's Work on Motor Fuels, 255-256
Romani, Russia, Undeveloped Oil Land in, 187-188
Ropes, Broken, Recovery of, 404
Rotary Pumps, 84-85
Russia, Oil, Occurrence of, 2-32

Sabunchi, Russia, Undeveloped Oil Land in, 188
SANSOM, C. A., on Use of Hand Auger, 481
SARA, C. G., on Carpathian Region, 306-307
——— on Oilfield Waste, 324-325
"Sealite," a Fire Extinguisher, 119
Sidetracking of Tools, 405-407
SLADE, Admiral Sir E. J. W., Fuel Resources and Supplies for Road Transport, 452-468
Smell, Psycho-Galvanic Measurement of, 389-391
SPIELMANN, Dr. P. E., on Origin of Petroleum, 359-360
STANTON, Dr. T. E., The Nature of Lubrication in Engineering Practice, 260-273
Steam Pumps, Duplex, 82-83
STIRLING, ROBERT, on Potrero No. 4, 163-164
STRUBEN, A., on Origin of Petroleum, 363-364
Students' Section, Report of First Meeting, London Branch, 478-482
Sulphur, Free, in Motor Fuels, 133-139
Surakhani, Russia, Undeveloped Oil Land in, 185-186
SUTHERLAND, D. A., on Egyptian Crude, 237-238

TEMPLETON, J. C., on Pole Tool Drilling, 75-76

Terek District, Russia, Geology of, 14-16
Tetralin, Supplementary Motor Fuel, 251
Tetralin-extra, Supplementary Motor Fuel, 251
THOLE, Dr. F. B. See DUNSTAN, Dr. A. E.
THOMPSON, A. BEEBY, Oilfield Waste, 311-329
——— on Egyptian Crude, 236-237
——— on Pole Tool Fishing, 417-419
TIZARD, Col. H. T., on Flash-point Temperatures, 61-64
Tools, Recovery of Lost, 400
——— Recovery of Stuck, 401-402
——— Sidetracking of, 405-407
——— Straightening of, 402
Transcaspia, Russia, Geology of, 21-24
Transport, Road, Fuel Resources and Supplies for, 452-468
Tulsa, Oklahoma, International Petroleum Exposition, 472-477
Turkestan, Russia, Geology of, 21-24

Ukhta District, Russia, Geology of, 25
Underground Drainage, Petroleum Mining by, 330-342
United Kingdom, Fuel Resources and Supplies for Road Transport, 452-468
Unsaturation Shown by Iodine Numbers, 439

Vapour-air Mixtures, Flash-point of, Effect of Temperature on, 53-60
Vertical Pressure, Tectonics of, and Oil Deposits, 276-287
Viscosities of Fuel Oil made from Panuco Crude, 440-451
VOITESTI, Dr. I. P., The Mode of Appearance of the Petroleum Deposits in the Carpathian Region, 291-300, 309-310
Volga District, Russia, Geology of, 24-25
WALLEN, E. K., on Pole Tool Fishing, 422-424
WATSON, —., on Flash-point Temperature, 64
WEEKS, W. G., on Carpathian Region, 308-309
WILSON, A. L., on Use of Hand Auger, 482
WILSON, W. J., on Egyptian Crude, 239

ZELINSKY, Prof., on Origin of Petroleum, 360-361
Zykh, Russia, Undeveloped Oil Land in, 201-204